L Number	Hits	Search Text	DB	Time stamp
1	2210	confocal near microscop$6	USPAT	2004/10/14 11:34
2	5559	confocal near microscop$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/14 11:37
3	206	confocal near microscop$6	JPO	2004/10/14 11:34
4	1	(confocal near microscop$6) and (index or indices) near refract$5	JPO	2004/10/14 11:34
5	35	(confocal near microscop$6) same (indices or index) near refraction	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/14 12:54
6	1	("6275726").PN.	USPAT	2004/10/14 12:57
7	14	("4612938" | "4810875" | "4947850" | "5200430" | "5290555" | "5336175" | "5476515" | "5565215" | "5647364" | "5674470" | "5713359" | "5792051" | "5823951" | "5928663").PN.	USPAT	2004/10/14 12:55
8	583	(600/476).CCLS.	USPAT	2004/10/14 13:32
9	8	confocal with index near matching	USPAT	2004/10/14 13:32
42	290	confocal.ti.	USPAT	2004/10/14 13:47
43	78	confocal.ti. and ccd	USPAT	2004/10/14 13:50
44	21	confocal.ti. and ccd and tissue	USPAT	2004/10/14 14:58
45	56	deconvolution and dic	USPAT	2004/10/14 14:58
-	1	("6,658,142").PN.	USPAT	2004/10/13 15:51
-	0	6658142.URPN.	USPAT	2004/10/12 14:05
-	7	("5283777" | "5671136" | "5694249" | "5783833" | "5787146" | "5912257" | "6084227").PN.	USPAT	2004/10/12 14:05
-	0	("kam-zvi$.in.").PN.	USPAT	2004/10/12 14:07
-	0	zvi-kam.in.	USPAT	2004/10/12 14:07
-	0	zvi-kam.ap.	USPAT	2004/10/12 14:07
-	1	zvi near kam	USPAT	2004/10/12 14:07
-	4	zvi near kam	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:29
-	735	differential adj interference adj contrast	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 10:52
-	4076	ray near (tracing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:31
-	42063	index near refraction	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:31
-	55	wavefront near integrat$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:33
-	2643	point near spread	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:31
-	1	(differential adj interference adj contrast) and (ray near (tracing)) and (index near refraction) and (wavefront near integrat$4) and (point near spread)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 16:30

-	1	(ray near (tracing)) and (index near refraction) and (wavefront near integrat$4) and (point near spread)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:32
-	1	(ray near (tracing)) and (index near refraction) and (wavefront near integrat$4) and (point near spread)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:32
-	13688	wavefront	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:33
-	1	(differential adj interference adj contrast) and (ray near (tracing)) and (index near refraction) and (point near spread) and wavefront	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:33
-	3	(differential adj interference adj contrast) and (ray near (tracing))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:34
-	1	(differential adj interference adj contrast) and (wavefront near integrat$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:35
-	14	(differential adj interference adj contrast) and (point near spread)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:35
-	66	(differential adj interference adj contrast) and (index near refraction)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:48
-	0	(index near refraction) same (wavefront near integrat$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:49
-	7	(index near refraction) and (wavefront near integrat$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 14:49
-	41	ray near (trace or tracing) with (index or indices) near refraction	USPAT	2004/10/12 15:33
-	23103	382/$.ccls.	USPAT	2004/10/12 15:34
-	41	(ray near (trace or tracing) with (index or indices) near refraction) and index near refract$5	USPAT	2004/10/12 15:34
-	415	382/$.ccls. and index near refract$5	USPAT	2004/10/12 15:34
-	21	(382/$.ccls. and index near refract$5) and point near spread	USPAT	2004/10/12 15:34
-	14	((382/$.ccls. and index near refract$5) and point near spread) and ray	USPAT	2004/10/12 15:48
-	3	("5751475" | "6011874" | "6262818").PN.	USPAT	2004/10/12 15:35
-	5	("4863226" | "5047968" | "5241471" | "5375156" | "5414623").PN.	USPAT	2004/10/12 15:44
-	236	werner-brian$	USPAT	2004/10/12 15:50
-	39	miller-ryan$	USPAT	2004/10/12 15:48
-	220	werner-brian$ not miller-ryan$	USPAT	2004/10/12 15:50
-	7010	(differential adj interference adj contrast) or dic	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 16:30

-	15	((differential adj interference adj contrast) or dic) same deconvolution	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 16:31
-	15	((differential adj interference adj contrast) or dic) same (de adj convolution or deconvolution)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 16:35
-	0	((differential adj interference adj contrast) or dic) same (de adj blur$4 or deblur$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 16:33
-	18	((differential adj interference adj contrast) or dic) and point near spread	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 16:35
-	5306	de adj convolution or deconvolution	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 16:36
-	234	(de adj convolution or deconvolution) and point near spread	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 16:36
-	14	((de adj convolution or deconvolution) and point near spread) and ray near trac$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 16:36
-	735	differential adj interference adj contrast	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 10:52
-	5529	confocal near microscop$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 10:52
-	6129	(differential adj interference adj contrast) or (confocal near microscop$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 10:52
-	43	((differential adj interference adj contrast) or (confocal near microscop$5)) and correct$5 with index near refract$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 10:53
-	17	((differential adj interference adj contrast) or (confocal near microscop$5)) and correct$5 near2 (index near refract$5 or abberation)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 10:58
-	41	((differential adj interference adj contrast) or (confocal near microscop$5)) and ray near trac$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 11:11
-	5518	(sample or specimen) with index near refract$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 11:12

-	180	((sample or specimen) with index near refract$5) and ((differential adj interference adj contrast) or (confocal near microscop$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 11:14
-	105	ray near trac$5 with wavefront	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 11:15
-	149	ray near trac$5 with index near refract$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 11:16
-	3	(ray near trac$5 with wavefront) and (ray near trac$5 with index near refract$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 11:27
-	3	line near integration and index near refract$4 and point near spread	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 11:40
-	1	refraction near map with line near integrat$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 11:40
-	28	refraction near map	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 11:49
-	29	(ray near trac$5 with index near refract$4) and microscop$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 14:34
-	2	abberated near wavefront	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 14:34
-	165	aberrated near wavefront	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 14:34
-	30	(aberrated near wavefront) and index near refraction	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/13 14:34
-	701	(382/128).CCLS.	USPAT	2004/10/13 15:18
-	27	((382/128).CCLS.) and confocal	USPAT	2004/10/13 15:18
-	7	("5283777" | "5671136" | "5694249" | "5783833" | "5787146" | "5912257" | "6084227").PN.	USPAT	2004/10/13 15:52
-	11	("2601175" | "4364629" | "4518231" | "4700071" | "4720191" | "4786154" | "4964707" | "5295477" | "5371624" | "5522789" | "5572359").PN.	USPAT	2004/10/13 15:56

-	26	("3623811" | "3682071" | "3769889" | "3875401" | "3883251" | "3896304" | "3953863" | "4650282" | "4661986" | "5249035" | "5347363" | "5390024" | "5432712" | "5448322" | "5455689" | "5475422" | "5495576" | "5506654" | "5510831" | "5539572" | "5557323" | "5644651" | "5655033" | "5680474" | "5856844" | "6201899").PN.	USPAT	2004/10/13 16:09
-	4	("4584704" | "4661986" | "5325449" | "5878152").PN.	USPAT	2004/10/13 16:10
-	4	("4899318" | "4920491" | "5081993" | "5226113").PN.	USPAT	2004/10/13 16:15
-	111	(382/255).CCLS.	USPAT	2004/10/13 16:20
-	16	((382/255).CCLS.) and refract$5	USPAT	2004/10/13 16:28
-	15	("4038536" | "4063549" | "4325257" | "4612575" | "4947323" | "4947362" | "5173879" | "5300771" | "5340988" | "5400299" | "5414782" | "5440119" | "5504523" | "5513531" | "5563962").PN.	USPAT	2004/10/13 16:23
-	13	("4637690" | "4669842" | "4699505" | "4725722" | "4786947" | "4825247" | "4907021" | "5105075" | "5117255" | "5436692" | "5581324" | "5633101" | "5721608").PN.	USPAT	2004/10/13 16:25
-	3	((382/255).CCLS.) and ray near trac$5	USPAT	2004/10/13 16:29
-	93	((382/255).CCLS.) not (((382/255).CCLS.) and refract$5) not (((382/255).CCLS.) and ray near trac$5)	USPAT	2004/10/13 16:35
-	607	(382/154).CCLS.	USPAT	2004/10/13 16:51
-	17	((382/154).CCLS.) and index near refract$5	USPAT	2004/10/13 16:39
-	24	((382/154).CCLS.) and ray near trac$5	USPAT	2004/10/13 16:41
-	371	ray near trac$5 same index near refract$5	USPAT	2004/10/13 16:42
-	114	ray near trac$5 with index near refract$5	USPAT	2004/10/13 16:54
-	701	(382/128).CCLS.	USPAT	2004/10/13 16:51
-	10	((382/128).CCLS.) and refraction and ray	USPAT	2004/10/13 16:52
-	12	((382/128).CCLS.) and refraction near index	USPAT	2004/10/13 16:52
-	410	differential adj interference adj contrast	USPAT	2004/10/13 16:55
-	15	(differential adj interference adj contrast) and blur$5	USPAT	2004/10/13 17:00
-	90	(differential adj interference adj contrast) and index near refract$5	USPAT	2004/10/13 17:01
-	41	((differential adj interference adj contrast) and index near refract$5) and (correct$4 or blur$6 or deconvol$6)	USPAT	2004/10/13 17:02
-	1	refract$5 near (index or indices) with (sample or specimen) with blur$6	USPAT	2004/10/14 11:33
-	5	("4863226" | "5047968" | "5241471" | "5375156" | "5414623").PN.	USPAT	2004/10/13 17:06

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1 **Single neuron chaos**
Szu, H.; Rogers, G.;
Neural Networks, 1992. IJCNN., International Joint Conference on , Volume: 3
11 June 1992
Pages:103 - 108 vol.3

[Abstract] [PDF Full-Text (428 KB)] **IEEE CNF**

2 **An interferometric technique for measuring the refractive index pro of a graded index optical fiber**
Das, K.K.; Arif, M.; Haider, A.F.M.Y.; Alam, M.S.;
Aerospace and Electronics Conference, 1994. NAECON 1994., Proceedings of t
IEEE 1994 National , 23-27 May 1994
Pages:1111 - 1118 vol.2

[Abstract] [PDF Full-Text (312 KB)] **IEEE CNF**

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1 A general two-pass method integrating specular and diffuse reflection

F. Sillion, C. Puech

July 1989 **ACM SIGGRAPH Computer Graphics , Proceedings of the 16th annual conference on Computer graphics and interactive techniques**, Volume 23 Issue 3

Full text available: pdf(2.59 MB) Additional Information: full citation, abstract, references, citings, index terms

We analyse some recent approaches to the global illumination problem by introducing the corresponding *reflection operators*, and we demonstrate the advantages of a two-pass method. A generalization of the system introduced by Wallace *et al.* at Siggraph '87 to integrate diffuse as well as specular effects is presented. It is based on the calculation of *extended form-factors*, which allows arbitrary geometries to be used in the scene description, as well as refraction effects. W ...

2 Parallel rendering: Interactive headlight simulation: a case study of interactive distributed ray tracing

Carsten Benthin, Tim Dahmen, Ingo Wald, Philipp Slusallek

September 2002 **Proceedings of the Fourth Eurographics Workshop on Parallel Graphics and Visualization**

Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, references

Todays rasterization graphics hardware provides impressive speed and features making it the standard tool for interactively visualising virtual prototypes early in the industrial design process. However, due to inherent limitations of the rasterization approach many optical effects can only be approximated. For many products, in particular in the car industry, the resulting visual quality and realism is inadequate as the basis for critical design decisions. Thus the original goal of using virtua ...

3 Theory and application of specular path perturbation

Min Chen, James Arvo

October 2000 **ACM Transactions on Graphics (TOG)**, Volume 19 Issue 4

Full text available: pdf(280.67 KB) Additional Information: full citation, abstract, references, index terms

In this paper we apply perturbation methods to the problem of computing specular reflections in curved surfaces. The key idea is to generate families of closely related optical paths by expanding a given path into a high-dimensional Taylor series. Our path perturbation method is based on closed-form expressions for linear and higher-order approximations of ray paths, which are derived using Fermat's Variation Principle and the

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1 **A refraction correction technique which includes nonsymmetric inde refraction**
Rainey, R., Jr.; Thorn, D.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volum 11 , Issue: 4 , Jul 1963
Pages:446 - 450

[Abstract] [PDF Full-Text (464 KB)] **IEEE JNL**

2 **Displacement of rays in a turbulent medium**
Yeh, K.; Liu, C.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volum 16 , Issue: 6 , Nov 1968
Pages:678 - 683

[Abstract] [PDF Full-Text (496 KB)] **IEEE JNL**

3 **Ray path in a stratified absorbing medium**
Kimura, I.; Kawai, M.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volum 24 , Issue: 4 , Jul 1976
Pages:515 - 518

[Abstract] [PDF Full-Text (424 KB)] **IEEE JNL**

4 **The correlation between the electric field at a great distance and a r radio-meteorological parameter**
Misme, P.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volum 6 , Issue: 3 , Jul 1958

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www.cs.rutgers.edu/pub/technical-reports/dcs-tr-375.ps.Z

Exotic Multiplications On Morava K-Theories And Their Liftings - Baker (1997) (Correct)
www.maths.gla.ac.uk/~andy/dvi-ps/bpmax.ps

Mean Field Reconstruction with Snaky Edge Hints - Philipsen, Hansen, Toft (1995) (Correct)
eivind.imm.dtu.dk/dist/1995/pap.SnakeMean.ps.Z

KAM-Renormalization Group Approach to the Break-up of.. - Chandre Govin (1998) (Correct) (1 citation)
KAM-Renormalization Group Approach to the Break-up of
with two degrees of freedom using a combination of **KAM** theory and renormalization group techniques. We
action variables that is invariant under the chosen **KAM** transformations, following the approach of
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An Efficient Implementation of the Quincunx Filter Bank - van Leest (Correct)
www.stw.nl/programmas/prorisc/cssp97/proc/psz/leest.ps.gz

KAM-Renormalization Group Analysis of Stability in.. - Govin, Chandre, Jauslin (1997) (Correct) (4 citations)
KAM-Renormalization Group Analysis of Stability in
tori in Hamiltonian flows using a combination of **KAM** theory and renormalization group techniques. We
analyse the strong coupling regime. We show that the **KAM** iteration converges up to the critical coupling at
mpej.unige.ch/mp_arc/c/97/97-309.ps.gz

Deformations Of Bimodule Problems - Geiß (1995) (Correct)
www.mathematik.uni-bielefeld.de/sfb343/preprints/pr95069.ps.gz

Joint Parameter Estimation and Detection of DS-CDMA Signals in.. - Ström, al. (1995) (Correct) (1 citation)
ftp.s3.kth.se/pub/signal/reports/95/IR-S3-SB-9518.ps

Birational Finite Extensions - Marek Kara's (Correct)
www.im.uj.edu.pl/preprint/imuj1998/pr9805.ps

A Cohomology For Vector Valued Differential Forms - Michor, Schicketanz (1989) (Correct) (1 citation)
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A Bernstein-Markov Theorem for Normed Spaces - Lawrence Harris (1997) (Correct)
www.ms.uky.edu/~larry/paper.dir/berns-mark.ps

Reducing Query Answering to Satisfiability in Nonmonotonic Logics - Rosati (1998) (Correct)
ftp.dis.uniroma1.it/pub/rosati/papers/aaai98.ps.gz

Dynamic Thick Restarting of the Davidson, and the.. - Stathopoulos, Saad, Wu (1996) (Correct) (7 citations)
www.nersc.gov/~kewu/ps/thick.ps

On the Dimension of Multivariate Piecewise Polynomials - Peter Alfeld (1986) (Correct) (1 citation)
www.math.utah.edu/~alfeld/papers/pap24.ps

The breaking of the AR Hash Function - Damgård, Knudsen (Correct)
www.daimi.au.dk/PB/449/PB-449.ps.gz

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1 Flexible reference trace reduction for VM simulations
Scott F. Kaplan, Yannis Smaragdakis, Paul R. Wilson
January 2003 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 13 Issue 1
Full text available: pdf(415.81 KB) Additional Information: full citation, abstract, references, index terms

The unmanageably large size of reference traces has spurred the development of sophisticated trace reduction techniques. In this article we present two new algorithms for trace reduction: *Safely Allowed Drop* (SAD) and *Optimal LRU Reduction* (OLR). Both achieve high reduction factors and guarantee *exact simulations* for common replacement policies and for memories larger than a user-defined threshold. In particular, simulation on OLR-reduced traces is accurate for the LRU repla ...

Keywords: cache hierarchies, locality, reference traces, trace compression, trace reduction

2 Representation: Point-based modelling and rendering using radial basis functions
Patrick Reuter, Ireneusz Tobor, Christophe Schlick, Sébastien Dedieu
February 2003 **Proceedings of the 1st international conference on Computer graphics and interactive techniques in Austalasia and South East Asia**
Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, index terms

A point-based 3D surface modelling technique combined with a new point rendering technique is presented. Surfaces are modelled by specifying a set of unorganized points on the surface. An implicit representation of the surface through these points minimizing the bending energy is then calculated using radial basis functions while guaranteeing a specifiable continuity. The surface is directly rendered view-dependently in an output-sensitive multiresolution manner without the creation of a polygon ...

Keywords: point-based modelling, point-based rendering, radial basis functions

3 Three-dimensional medical imaging: algorithms and computer systems
M. R. Stytz, G. Frieder, O. Frieder
December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4
Full text available: pdf(7.38 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

4 Survey of image quality measurements
Ikram E. Abdou, Nicolas J. Dusaussoy
November 1999 **Proceedings of 1986 ACM Fall joint computer conference**

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Adaptive Segmentation of MRI data - Wells, III, Grimson, Kikinis, Jolesz (1996) (Correct) (52 citations)
W. Wells, R. Kikinis, W. Grimson, and F. Jolesz. **Adaptive** segmentation of MRI data. In Int. Conf. on Comp.
splweb.bwh.harvard.edu:8000/pages/ppl/sw/papers/tmi-96.pdf

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Nonlinear Anisotropic Filtering Of MRI Data - Gerig, Kübler, Kikinis, Jolesz (1992) (Correct) (51 citations)
The potential advantages for MRI, diagnosis and **computerized** analysis are discussed in detail. Key Words:
by suppressing fine details. Another approach is **adaptive** filtering (see [1] for a detailed survey)which
A. Jolesz 1 Communication Technology Laboratory, **Image** Science Division, ETH-Zentrum CH-8092 Zurich,
splweb.bwh.harvard.edu:8000/pages/papers/gerig/nonlin-filt/gerigTMI92.ps.gz

Volume Rendering by Adaptive Refinement - Levoy (1989) (Correct) (36 citations)
introduced during acquisition as in the case of **computerized** tomography (CT) and electron density maps
1 Volume Rendering by **Adaptive** Refinement Marc Levoy June, 1988 (revised
presents a volume rendering algorithm in which **image** quality is **adaptive**ly refined over time. An
www.cse.fsu.edu/~erlebach/courses/sciviz/papers/volumetric_papers/PAPERS/LEVOY/LEV90C/LEVOY90C.PS

On Projection Algorithms for Solving Convex Feasibility Problems - Bauschke, Borwein (1996) (Correct) (21 citations)
and modern physical sciences (most notably, **computerized** tomography)algorithms for solving convex
We will analyze algorithms in a very broad and **adaptive** framework which is essentially due to Flam and
firmly nonexpansive mapping, Hilbert space, **image** recovery, iterative method, Kaczmarz's method,
www.cecm.sfu.ca/ftp/pub/CECM/Preprints/Postscript/95:034-Bauschke-Borwein.ps.gz

A Viewpoint Determination System for Stenosis.. - Sato, Araki.. (1998) (Correct) (8 citations)
can be broadly classified into those involving **computerized** quantitative analysis and those relying on
In the computer vision field, the importance of **adaptive** control in **image** acquisition has recently been
IEEE Transaction on Medical **Imaging**, Vol. 17, No. 1, pp.121-137, February, 1998. A
www.med.osaka-u.ac.jp/image/kawazoe/kinougazou/paper/stenosis.ps.gz

Automated Segmentation of MRI of Brain Tumors - Kaus, Warfield, Nabavi.. (2001) (Correct) (6 citations)
2D **images** alone. **Image** based modeling requires **computerized image** processing methods which include
framework We adopted a general algorithm called **adaptive** template moderated classification (see [18, 19]
resonance (MR)Computer assisted neurosurgery, **Image** segmentation 1 Introduction Computer assisted
splweb.bwh.harvard.edu:8000/pages/papers/kaus/radiology2001/rad2001.pdf

Quantitative Analysis of MRI Signal Abnormalities of.. - Wei, Warfield, Zou, Wu (2002) (Correct) (1 citation)
by comparing the performance of the three **computerized** methods to that of three expert radiologists.
A three-dimensional implementation of the self-**adaptive** EM segmentation algorithm, initialized with the
pipelines for quantitative magnetic resonance **imaging** (MRI) measurement of brain white matter signal
splweb.bwh.harvard.edu:8000/pages/papers/pubs/../xcwei/wei_JMRI2002.pdf

Automated Melanoma Recognition - Ganster, Pinz, al. (2001) (Correct) (1 citation)
and Harald Kittler Abstract-A system for the **computerized** analysis of **images** obtained from ELM has been
six different color segmentation algorithms (**adaptive** thresholding [7]1] fuzzy-c-means [15]
Ieee Transactions On Medical **Imaging**, Vol. 20, No. 3, March 2001 233
www.emt.tu-graz.ac.at/~pinz/onlinepapers/IEEETMI01.pdf

Fusion of Physically-Based Registration and Deformation.. - Tsap, Goldgof, Sarkar (2001) (Correct) (1 citation)
Contours of the brain atlas and the CT (**Computerized** Tomography) **image** of the brain from three

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US 6,658,142 B1. **Computerized adaptive imaging**. **Zvi Kam**, Tel Aviv (Israel); John W. Sedat, San Francisco, Calif. (US); David A. Agard, San Francisco, Calif. ...
www.uspto.gov/web/patents/patog/ week48/OG/html/1277-1/US06658142-20031202.html - 8k - Cached - Similar pages

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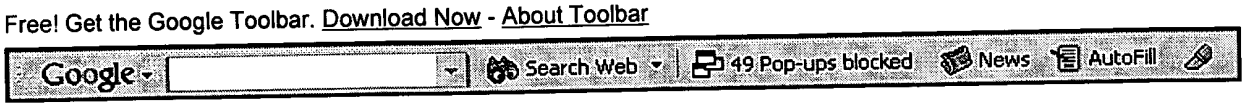

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1 **Reconstructing specimens using DIC microscope images**
Kagalwala, F.; Kanade, T.;
Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 33 , Issue: 5 , 2003
Pages:728 - 737

[Abstract] [PDF Full-Text (2540 KB)] IEEE JNL

2 **Advanced optical tweezers for the study of cellular and molecular biomecha**
Brouhard, G.J.; Schek, H.T., III; Hunt, A.J.;
Biomedical Engineering, IEEE Transactions on , Volume: 50 , Issue: 1 , Jan. 2003
Pages:121 - 125

[Abstract] [PDF Full-Text (592 KB)] IEEE JNL

3 **Feature extraction of chromosomes from 3-D confocal microscope images**
Kyan, M.J.; Ling Guan; Arnison, M.R.; Cogswell, C.J.;
Biomedical Engineering, IEEE Transactions on , Volume: 48 , Issue: 11 , Nov. 2001
Pages:1306 - 1318

[Abstract] [PDF Full-Text (304 KB)] IEEE JNL

4 **Optical observation of closure domains in Terfenol-D single crystals**
Lord, D.G.; Elliot, V.; Clark, A.E.; Savage, H.T.; Teter, J.P.; McMasters, O.D.;
Magnetics, IEEE Transactions on , Volume: 24 , Issue: 2 , Mar 1988
Pages:1716 - 1718

[Abstract] [PDF Full-Text (292 KB)] IEEE JNL

5 **Reconstructing specimens using DIC microscope images**
Kagalwala, F.; Kanade, T.;
Bio-Informatics and Biomedical Engineering, 2000. Proceedings. IEEE International Symposium on , 8-10 Nov. 2000
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1 **Ray path in a stratified absorbing medium**
Kimura, I.; Kawai, M.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volume: 24 , Is
4 , Jul 1976
Pages:515 - 518

[Abstract] [PDF Full-Text (424 KB)] IEEE JNL

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2 **The correlation between the electric field at a great distance and a new radi meteorological parameter**
Misme, P.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volume: 6 , Iss
3 , Jul 1958
Pages:289 - 292

[Abstract] [PDF Full-Text (392 KB)] IEEE JNL

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3 **Comparison of computed with observed atmospheric refraction**
Anderson, W.; Beyers, N.; Fannin, B.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volume: 7 , Iss
3 , Jul 1959
Pages:258 - 260

[Abstract] [PDF Full-Text (328 KB)] IEEE JNL

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4 **Comparison of experimetal with computed tropospheric refraction**
Anderson, W.; Beyers, N.; Rainey, R.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volume: 8 , Iss
5 , Sep 1960
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1 Interactive manipulation of rigid body simulations

Jovan Popović, Steven M. Seitz, Michael Erdmann, Zoran Popović, Andrew Witkin

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(886.24 KB) Additional Information: full citation, abstract, references, citings, index terms

Physical simulation of dynamic objects has become commonplace in computer graphics because it produces highly realistic animations. In this paradigm the animator provides few physical parameters such as the objects' initial positions and velocities, and the simulator automatically generates realistic motions. The resulting motion, however, is difficult to control because even a small adjustment of the input parameters can drastically affect the subsequent motion. Furthermore, the animator o ...

Keywords: animation with constraints, physically based animation

2 An updated cross-indexed guide to the ray-tracing literature

L. Richard Speer

January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

Full text available: pdf(2.94 MB) Additional Information: full citation, index terms

3 Theory and application of specular path perturbation

Min Chen, James Arvo

October 2000 **ACM Transactions on Graphics (TOG)**, Volume 19 Issue 4

Full text available: pdf(280.67 KB) Additional Information: full citation, abstract, references, index terms

In this paper we apply perturbation methods to the problem of computing specular reflections in curved surfaces. The key idea is to generate families of closely related optical paths by expanding a given path into a high-dimensional Taylor series. Our path perturbation method is based on closed-form expressions for linear and higher-order approximations of ray paths, which are derived using Fermat's Variation Principle and the Implicit Function Theorem (IFT). The perturbation formula presen ...

Keywords: Taylor series, implicit surfaces, optics, perturbation theory, specular reflection

4 Dissertation Abstracts in Computer Graphics

January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

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5 Reflection from layered surfaces due to subsurface scattering

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graphics.lcs.mit.edu/~seth/pubs/radianceinterps.ps.Z

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Of Load Balancing Strategies For Parallel **Ray Tracing** Alan Heirich &James Arvo Heirich@sgi.com,
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The **Ray Tracing** Kernel David Kirk* and James Arvo, Apollo
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www.cs.caltech.edu/~arvo/papers/kernel.ps

Ray Tracing Complex Scenes: Sequential or In Parallel? - Arno Formella (Correct)
Ray Tracing Complex Scenes: Sequential or In Parallel
Ray Tracing Complex Scenes: Sequential or In Parallel ?
www-wjp.cs.uni-sb.de/projects/sbpram/papers/ismm_ray.ps.gz

Template-Based Volume Viewing - Yagel, Kaufman (1992) (Correct) (34 citations)
that is based on exploit- t ing coherency between **rays** in parallel projection. The algorithm starts by
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arvo@yale.edu Abstract Because **ray tracing** acceleration techniques differ in their relative
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Conservative Radiance Interpolants for Ray Tracing - Teller, Bala, Dorsey (1996) (Correct) (10 citations)
was proposed in 1980 to simulate reflection and **refraction** 1 We do not consider texture mapping in this and 294. Conservative Radiance Interpolants for **Ray Tracing** Seth Teller Kavita Bala Julie Dorsey MIT
graphics.lcs.mit.edu/~seth/pubs/radianceinterps.ps.Z

Ten Unsolved Problems in Rendering - Heckbert (1987) (Correct)
loser, but still out of reach. 3. transparency: **Refraction** has not been satisfactorily simulated. g a now be considered solved due to Whitted's recursive **ray tracin** lgorithm. 1 Workshop on Rendering be considered solved due to Whitted's recursive **ray tracin** lgorithm. 1 Workshop on Rendering Algorithms
www.cs.cmu.edu/afs/cs/user/ph/www/unsolved.ps.Z

Sphere Tracing: Simple Robust Antialiased Rendering of.. - Hart (1993) (Correct)
numerical method for finding the intersection of a **ray** with an implicit surface. Unlike Newton's method Sphere **Tracing**: Simple Robust Antialiased Rendering of
EECS Washington State University Abstract Sphere **tracing** is a new numerical method for finding the
ftp.eecs.wsu.edu/pub/hart/zeno-tr.ps.gz

A Generic Algorithm For The Simulation Of Straight-Line Energy.. - Roelens (Correct)
computed by Snell's law for reflection and **refraction**. These **rays** are called secundary **rays**, and they computer graphics is described. INTRODUCTION The **ray tracing** algorithm (Whitted 1980) is now a widely graphics is described. INTRODUCTION The **ray tracing** algorithm (Whitted 1980) is now a widely used
www.emse.fr/~roelens/ps/esm93.ps.gz

A Competitive Analysis of Load Balancing Strategies for.. - Heirich, al. (1998) (Correct) (3 citations)
307,200 pixels. Then if there is a set of computers **indexe**d by j, and a mapping function F(i) j that Analysis Of Load Balancing Strategies For Parallel **Ray Tracing** Alan Heirich &James Arvo
Of Load Balancing Strategies For Parallel **Ray Tracing** Alan Heirich &James Arvo Heirich@sgi.com,
www.cs.caltech.edu/~arvo/papers/CompAnalysis.ps.gz

Sphere Tracing: A Geometric Method for the Antialiased Ray Tracing .. - Hart (1994) (Correct) (9 citations)
of unions and lists by optionally storing an **index** to the object closest to the cell. An object is **Tracing**: A Geometric Method for the Antialiased **Ray Tracing** of Implicit Surfaces John C. Hart School Sphere **Tracing**: A Geometric Method for the Antialiased **Ray**
ftp.eecs.wsu.edu/pub/hart/zeno.ps.gz

Ray Tracing with Meta-Hierarchies - Arvo (1990) (Correct) (2 citations)
Ray Tracing with Meta-Hierarchies James Arvo Apollo
Ray Tracing with Meta-Hierarchies James Arvo Apollo Systems
arvo@yale.edu Abstract Because **ray tracing** acceleration techniques differ in their relative
www.cs.caltech.edu/~arvo/papers/MetaHierarchies.ps

The Ray Tracing Kernel - Kirk, Arvo (1988) (Correct) (11 citations)
determined by the laws of reflection and **refraction** [21] or determined stochastically [5]For The **Ray Tracing** Kernel David Kirk* and James Arvo, Apollo
The **Ray Tracing** Kernel David Kirk* and James Arvo, Apollo
www.cs.caltech.edu/~arvo/papers/kernel.ps

Ray Tracing Complex Scenes: Sequential or In Parallel? - Arno Formella (Correct)
Ray Tracing Complex Scenes: Sequential or In Parallel
Ray Tracing Complex Scenes: Sequential or In Parallel ?
should be used to render images using **ray tracing**. Based on the definitions of cost-effective

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Fire Safety - Robert White And (Correct)
Wood 17-6 Ignition 17-6 Heat Release 17-7 Flame **Spread** 17-8 Smoke and Toxic Gases 17-9 Charring and are classified according to their flame **spread index**. Thus, flame **spread** is one of the most tested
www.fpl.fs.fed.us/documnts/FPLGTR/fplgtr113/Ch17.pdf

Stray Light Correction In Magnetograph Observations Using The.. - Jongchul Chae (Correct)
the deconvolution of observed Stokes images by the **point spread** function which is determined from the of observed Stokes images by the **point spread** function which is determined from the Stokes I s =m s)18) where the subscript s denotes the **index** number of discrete data **points** in the spatial
www.bbso.njit.edu/~chae/paper/cor.ps

Magnetic Lensing near Ultramagnetized Neutron Stars - Nir Shaviv (Correct)
the local effective photospheric temperature at the **point** where the ray intersects the surface. If the NS Extremely strong magnetic fields change the vacuum **index** of **refraction**. This induces a lensing effect that magnetic fields change the vacuum **index** of **refraction**. This induces a lensing effect that is not
www.tapir.caltech.edu/~nir/papers/lens/lens.ps.gz

Higher Order Spectra Based Deconvolution of Ultrasound Images - Abeyratne, Petropulu, Reid (1995) (Correct) (1 citation)
image, at given times (depth)Observing that the **point-spread** function of a typical pulseecho imaging at given times (depth)Observing that the **point-spread** function of a typical pulseecho imaging system is w i (n)i =1 2 3) where i is the A-line **index** f i (n) is the tissue response h i (n) is the
cbis.ece.drexel.edu/CSPL/UFFC.ps.Z

Visual Benefit of Correcting Higher Order . . . - Williams, I. (2000) (Correct)
aberration, it is possible to calculate the eye's **point spread** function, which is a succinct description it is possible to calculate the eye's **point spread** function, which is a succinct description of aberrations. Of course, knowing a patient's **refraction** is also a prescription for improving retinal
jrs.slackinc.com/vol165/willcon.pdf

Principles of Ray Tracing Aberrometry - Molebny, al. (Correct)
the eye parallel to the visual axis. Each entrance **point** provides its own projection on the retina. A set **refraction** map is reconstructed as well as a **point spread** function of the eye. The total time of scanning of Crete is a promising technique for eye **refraction** aberration and **refraction** mapping. METHODS: The
jrs.slackinc.com/vol165/molecon.pdf

Search and Ranking Algorithms for Locating Resources on the.. - Yuwono, Lee (1996) (Correct) (15 citations)
5 which allows any user to add an entry (a **point**er to a Web page along with other information) to user queries. The first algorithm, Boolean **Spread** Activation, extends the notion of word discovery, information retrieval, world wide web **index**ing, text database 1 Introduction The World Wide
www.cs.bilkent.edu.tr/~gural/CS550/budidik.ps

Bayesian Estimation for Archaeological Stratigraphy - Allum Aykroyd (Correct)
describe detector equipment response using both a **point-spread** function and a measurement error process, detector equipment response using both a **point-spread** function and a measurement error process, and j 0 j =OE(x j 0 Gamma x j)and the summation **index** j 0 is taken over all neighbours of j. For any
www.amsta.leeds.ac.uk/Statistics/preprints/STAT95-14.ps

Transparent Grippers: Seeing While Grasping - Nikolaev, Nayar (Correct)
in **refraction** at the entry into the slab and the **point** of exit are the same, but play reverse roles, the in the two media. The ratio n 21 is the refractive **index** of the second medium with respect to the first.

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Magnetic Lensing near Ultramagnetized Neutron Stars - Nir Shaviv (Correct)
- up to a few percent for the largest fields **known**. This potentially allows a direct method for
Extremely strong magnetic fields change the vacuum **index** of **refraction**. This induces a lensing effect that
magnetic fields change the vacuum **index** of **refraction**. This induces a lensing effect that is not
www.tapir.caltech.edu/~nir/papers/lens/lens.ps.gz

Transparent Grippers: Seeing While Grasping - Nikolaev, Nayar (Correct)
between consecutive poses are precisely **known**, no additional calibration is needed to construct
in the two media. The ratio n 21 is the refractive **index** of the second medium with respect to the first.
while it is being manipulated. The physics of **refraction**, total internal reflection, lens effects,
www.cs.columbia.edu/CAVE/papers/nikolaev/nikolaev-nayar-grip_iuw-96.ps.gz

Energy-Efficient Index Replication for Wireless Data Broadcasting - Yon Dohn (Correct)
restriction[1, 3]And data broadcasting has been **known** as an efficient mechanism that can overcome the
Energy-Efficient **Index** Replication for Wireless Data Broadcasting Yon
dbserver.kaist.ac.kr/NEW/warehouse/./thesis_store/ydchung7.ps.gz

Nesting and Defoliation of Index Expressions for.. - Wondergem, van.. (Correct) (1 citation)
complexity. **Index** expressions are well-**known** in Information Retrieval (IR)where they are
Nesting and Defoliation of **Index** Expressions for Information Retrieval B.C.M.
ftp.cs.kun.nl/pub/SoftwEng.InfSyst/articles/Nesting.ps.Z

Search and Ranking Algorithms for Locating Resources on the.. - Yuwono, Lee (1996) (Correct) (15 citations)
information explosion leads to a problem commonly **known** as resource discovery problem. In order to find
discovery, information retrieval, world wide web **index**ing, text database 1 Introduction The World Wide
www.cs.bilkent.edu.tr/~gural/CS550/budidik.ps

Geophysical Inverse Problems - Using Mathematica (Correct)
experiments in which the observations are exactly **known** quantities, such as tossing a die. Unless our
of the compressional wave speed (essentially the **index** of **refraction**, called the slowness by
wave speed (essentially the **index** of **refraction**, called the slowness by seismologists) along
mines.colorado.edu/pub/papers/math_cs_dept/pub94/cwp157.ps.gz

Unknown - (Correct)
measurements are based on several assumptions. The **index** of **refraction** is adjusted to represent the total
power. Corneal plane manual or videokeratography **refraction**-derived keratometry calculations were most
analysis was not performed. CONCLUSIONS: **Refraction**-derived keratometric values provided the most
jrs.slackinc.com/vol134/kalski.pdf

Ray Tracing in Non-Constant Media - Jos Stam And (1996) (Correct) (3 citations)
of blobs and as a stochastic function. Using a well **known** perturbation technique from geometrical optics,
due to continuous variations of the refractive **index** of the air, and present several efficient
we model the fluctuations of the **index** of **refraction** both as a superposition of blobs and as a
reality.sgi.com/jstam_sea/Research/pdf/wobble.pdf

Faster, Better: Shear-Wave Velocity to 100 Meters Depth.. - John Louie Seismological (Correct)
methods that do not require drilling. The well-**known** Spectral Analysis of Surface Waves (SASW) and
27, 2001 Louie, Shear-Wave Velocities from **Refraction** Microtremor
Shear-Wave Velocity to 100 Meters Depth From **Refraction** Microtremor Arrays John N. Louie
www.seismo.unr.edu/ftp/pub/louie/papers/disper/./refr-pp.pdf

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